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(54) LABELED FIBRINOGEN AND APPLICATION THEREOF

(57)Abstract:

PURPOSE: To achieve the safety and simplicity of the screening of medicament having platelet aggregation suppression action by using label fibrinogen, wherein chemiluminescence material is bonded to the fibrinogen, in place of radioactive iodine atom¹²⁵I.

CONSTITUTION: Labeled fibrinogen, which is labeled with chemiluminescence material 4-(2-succinimidil-oxycarbonyl ethyl) phenyl-10-methylacridinium-9- carboxylate fluorosulfonate, is made to be the main component, and platelet- fibrinogen bonding measuring reagent is prepared. When the platelet-fibrinogen bonding is measured, labeled fibrinogen is added into the specimen, wherein the number of platelets is adjusted, reaction is performed for about 5-30 minutes at room temperature, then the non-reacted labeled fibrinogen is removed, the chemiluminescence of the bonded substance is measured, the bonded amount is computed and the degree of the platelet aggregation is detected. By the way, the fibrinogen has about the same sensitivity and selectivity as radioactive iodine atom¹²⁵I and does not have radioactivity.